



# Aggarwal College Ballabgarh

## LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Dr.K.L Kaushik

Designation/ Department: ASSOCIATE PROFESSOR/MATHEMATICS

CLASS: B.Sc.

SEMESTER: 6<sup>th</sup>

SECTION:

SUBJECT: Real and Complex Analysis

Week		
1	7-1-2025	Introduction to the Subject
	8-1-2025	About Jacobians function
	9-1-2025	Beta and Gama functions
	10-1-2025	Questions based on Jacobian function
	11-1-2025	Questions based on Beta and Gamma function
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	Double and Triple integrals
	14-1-2025	Questions based on to be discussed on Double and Triple integrals
	15-1-2025	Dirichlets integrals
	16-1-2025	Questions based on to be discussed on Dirichlets integrals
	17-1-2025	change of order of integration in double integrals
	18-1-2025	Questions based on Unit-I to be discussed
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	Doubt class
	21-1-2025	Test of Unit-I
	22-1-2025	About Fourier's series: Fourier expansion of piecewise monotonic functions

	<b>23-1-2025</b>	Properties of Fourier Co-efficients
	<b>24-1-2025</b>	Examples to be discussed
	<b>25-1-2025</b>	Dirichlet's conditions
	<b>26-1-2025</b>	<b>REPUBLIC DAY /S. U. N. D. A. Y.</b>
<b>4</b>	<b>27-1-2025</b>	Parseval's identity for Fourier series
	<b>28-1-2025</b>	Fourier series for even and odd function
	<b>29-1-2025</b>	Half range series
	<b>30-1-2025</b>	Change of Intervals
	<b>31-1-2025</b>	All examples to be discussed on the topics done till now
	<b>1-2-2025</b>	All examples to be discussed on the topics done till now
	<b>2-2-2025</b>	<b>S. U. N. D. A. Y/BASANT PANCHAMI</b>
<b>5</b>	<b>3-2-2025</b>	Doubt Class
	<b>4-2-2025</b>	Doubt Class
	<b>5-2-2025</b>	Test of Unit-II
	<b>6-2-2025</b>	Assignment based on Unit-I and Unit-II to be given
	<b>7-2-2025</b>	Results of Test to be discussed
	<b>8-2-2025</b>	Results of Test to be discussed
	<b>9-2-2025</b>	<b>S. U. N. D. A. Y</b>
<b>6</b>	<b>10-2-2025</b>	About Extended Complex Plane
	<b>11-2-2025</b>	Stereographic projection of complex numbers
	<b>12-2-2025</b>	<b>HOLIDAY: GURU RAVIDAS JAYANTI</b>
	<b>13-2-2025</b>	Continuity and differentiability of complex functions
	<b>14-2-2025</b>	Questions to be discussed on topic -Continuity and differentiability of complex functions

	<b>15-2-2025</b>	More Questions to be discussed on topic -Continuity and differentiability of complex functions
	<b>16-2-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>7</b>	<b>17-2-2025</b>	Analytic functions
	<b>18-2-2025</b>	Examples to be discussed on topic Analytic functions
	<b>19-2-2025</b>	Cauchy-Riemann equations
	<b>20-2-2025</b>	Questions to be discussed on topic - Cauchy-Riemann equations
	<b>21-2-2025</b>	Questions to be discussed on topic - Cauchy-Riemann equations
	<b>22-2-2025</b>	Questions to be discussed on topic - Cauchy-Riemann equations
	<b>23-2-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>8</b>	<b>24-2-2025</b>	Harmonic functions
	<b>25-2-2025</b>	Questions to be discussed on topic- Harmonic functions
	<b>26-2-2025</b>	<b>HOLIDAY: MAHA SHIVRATRI</b>
	<b>27-2-2025</b>	Assignment to be given based on Unit-III
	<b>28-2-2025</b>	Doubt Class
	<b>1-3-2025</b>	Doubt Class
	<b>2-3-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>9</b>	<b>3-3-2025</b>	Doubt Class
	<b>4-3-2025</b>	Test of Unit-III
	<b>5-3-2025</b>	Results of test to be discussed
	<b>6-3-2025</b>	Results of test to be discussed
	<b>7-3-2025</b>	Revision of All three units
	<b>8-3-2025</b>	Discussion of topics of important topics done till now
	<b>9-3-2025</b>	<b>S. U. N. D. A. Y.</b>

10	10-3-2025	HOLI BREAK
	11-3-2025	HOLI BREAK
	12-3-2025	HOLI BREAK
	13-3-2025	HOLI BREAK
	14-3-2025	HOLI BREAK
	15-3-2025	HOLI BREAK
	16-03-2025	<b>S. U. N. D. A. Y.</b>
11	17-3-2025	About Mappings by elementary functions: Translation
	18-3-2025	Questions based on Translation to be discussed
	19-3-2025	Questions based on Translation to be discussed
	20-3-2025	About Mappings by elementary functions: Rotation
	21-3-2025	Questions based on Rotation to be discussed
	22-3-2025	Questions based on Rotation to be discussed
	23-3-2025	<b>S. U. N. D. A. Y.</b>
12	24-3-2025	About Magnification and Inversion
	25-3-2025	Questions based on Magnification and Inversion to be discussed
	26-3-2025	Questions based on Magnification and Inversion to be discussed
	27-3-2025	Conformal Mappings
	28-3-2025	Questions based on Conformal Mappings to be discussed
	29-3-2025	Questions based on Conformal Mappings to be discussed
	30-3-2025	<b>S. U. N. D. A. Y.</b>
13	31-3-2025	<b>HOLIDAY: ID-UL-FITR</b>
	1-4-2025	Mobius transformations
	2-4-2025	Questions based on Mobius transformations to be discussed

	<b>3-4-2025</b>	Questions based on Mobius transformations to be discussed
	<b>4-4-2025</b>	Fixed pints
	<b>5-4-2025</b>	Questions based on Fixed points to be discussed
	<b>6-4-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>14</b>	<b>7-4-2025</b>	Questions based on Fixed pints to be discussed
	<b>8-4-2025</b>	Questions based on Fixed pints to be discussed
	<b>9-4-2025</b>	Cross ratio
	<b>10-4-2025</b>	<b>HOLIDAY: MAHAVIR JAYANTI</b>
	<b>11-4-2025</b>	Questions based on Cross Ratio to be discussed
	<b>12-4-2025</b>	Questions based on Cross Ratio to be discussed
	<b>13-4-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>15</b>	<b>14-4-2025</b>	<b>HOLIDAY: AMBEDKAR JAYANTI</b>
	<b>15-4-2025</b>	About Inverse Points
	<b>16-4-2025</b>	Questions based on Inverse Points to be discussed
	<b>17-4-2025</b>	Questions based on Inverse Points to be discussed
	<b>18-4-2025</b>	About Critical Mappings
	<b>19-4-2025</b>	Questions based on Critical Mappings to be discussed
	<b>20-4-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>16</b>	<b>21-4-2025</b>	Questions based on Critical Mappings to be discussed
	<b>22-4-2025</b>	Assignment-II to be given based on Units-III and Unit-IV
	<b>23-4-2025</b>	Doubt Class
	<b>24-4-2025</b>	Test of Unit -IV
	<b>25-4-2025</b>	Results of test to be discussed
	<b>26-4-2025</b>	Results of test to be discussed

	<b>27-4-2025</b>	<b>S. U. N. D. A. Y.</b>
<b>17</b>	<b>28-4-2025</b>	Revision of all syllabus
	<b>29-4-2025</b>	Revision of all syllabus
	<b>30-4-2025</b>	<b>HOLIDAY: AKSHAY TRITYA</b>
	<b>01-05-2025</b>	Revision of all syllabus
	<b>02-05-2025</b>	Revision of all syllabus
	<b>03-05-2025</b>	Revision of all syllabus
	<b>04-05-2025</b>	<b>S. U. N. D. A. Y.</b>

Geeta Tripathi

Signature